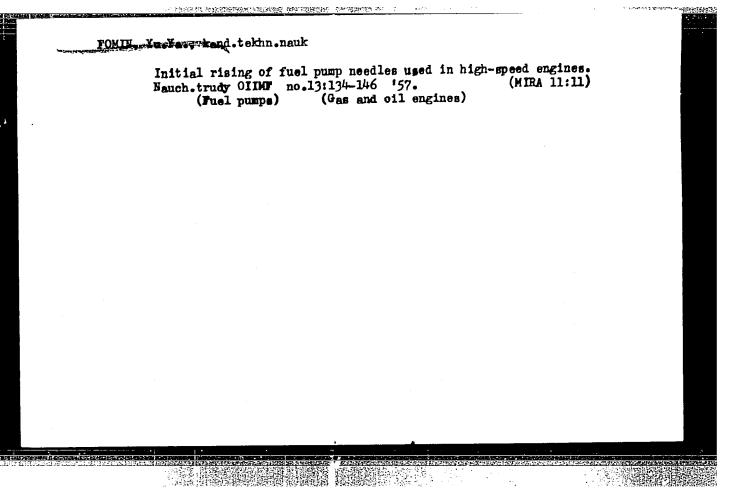
FOMIN , Yu.Ya., kandidat tekhnicheskikh nauk.

Iliminating supplementary fuel injections in engines. Avt. i trakt.

prom. no.2:14-16 F 157.

(Automobiles—Ingines)

(Automobiles—Ingines)



FOMIN, Yu.Ya., kand.tekhn.nauk

Designing fuel systems for engines using compression fuel combustion. Nauch.trudy OIMO no.13:147-163 '57.

(Fuel pumps) (Gas and oil engines)

AUTHOR: Fomin, Yu.Ya.

90-58-5-10/10

TITLE:

The Pressure Valve of the Diesel Fuel Pump (O nagnetatel'nom klapane toplivnogo nasosa dizelya)

PERIODICAL:

Energeticheskiy Byulleten', 1958, Nr 5, pp 30-33 (USSR)

ABSTRACT:

The fuel supply of the diesel engine determines the performance of the engine and depends considerably on the pressure valve of the fuel pump. Results of tests with a slide valve type fuel pump are given, whereby the revolutions of the camshaft ranged between 300 - 1,100 per min. The fuel was injected through a closed nozzle of the KKAZ type. The dependence of a single fuel injection on the height of the discharging annulet at various positions of the regulating rack and with the revolutions of the fuel pump at 490 rpm is shown in Figure 1. Experiments have shown that the injection factor η H is greatly influenced by the height of the discharging annulet. The curves of the pump work with valve No 4 in which the discharging annulet has a height of 1.0 mm are given in Figure 2. At a value of 850 rpm it is evident that η H is constant. Figure 3 shows the dependence of the maximal injection pressure Pmax on the height of the discharging annulet at 1,100 rpm.

Card 1/2

The Pressure Valve of the Diesel Fuel Pump

90-58-5-10/10

This demonstrated dependence contradicts the present opinion that the maximum injection pressure is independent from the height of the annulet. The character of change of the residual pressure valve in the pipeline p_T is also dependent on the height of the discharging annulet as shown in Figure 4. The increase of the p_T values at an increase of revolutions with the height of the discharging annulet remaining the same is explained by different closing conditions of the valve. The change in the height of the maximum lift of the valve exerts a considerable influence on the injection process at small revolution values and in single injections of the pump.

There is 1 table, 5 figures, and 2 Soviet references.

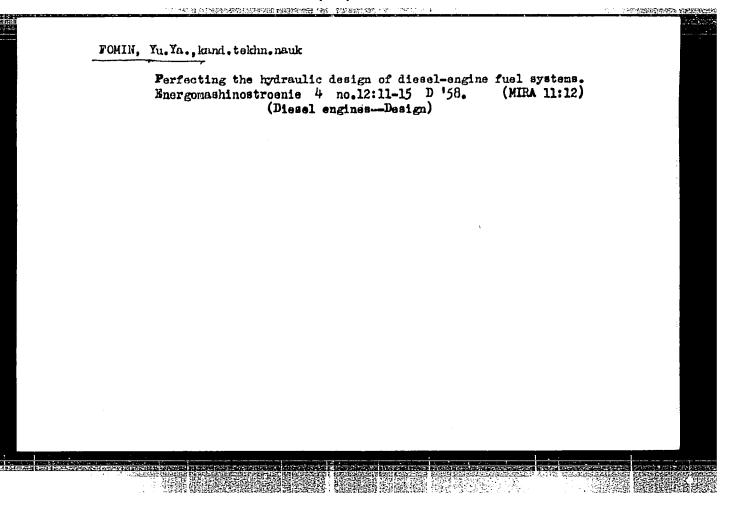
AVAILABLE:

Library of Congress

Card 2/2

1. Fuel pumps-Performance 2. Diesel engines-Fuel injection

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510009-8"



Calculating the end of the fuel injection process in diesel engines having enclosed burners. Nanch.trudy OIDT no.16: 63-76 '58. (MERA 11:11)

(Diesel engines) (Oil burners)

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Pomin, Yu, Ya., kand. tekhn. nauk.

Determining indicated horsepower and constructing indicator diagrams for engines with divergent pistons. Sudostroenie 24 no.8:30-33 Ag 158.

(MIRA 11:10)

(Marine engines)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510009-8"

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PHASE I BOOK EXPLOITATION

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SOV/2501

Fomin, Yuriy Yakovlevich

- Gidrodinamicheskiy raschet toplivnykh sistem sudovykh dizeley (Hydrodynamic Calculation of Fuel Systems in Marine Diesel Engines) Moscow, Izd-vo "Morskoy transport," 1959. 82 p. Errata slip inserted. 3,000 copies printed.
- Ed.: M.I. Chernov; Ed. of Publishing House: S.A. Semenova; Tech. Ed.: Ye.A. Tikhonova.
- PURPOSE: This book is intended for scientific workers and industrial engineers in the field of propulsion. It may also be useful to students of advanced courses in propulsion.
- COVERAGE: The author describes a new method of hydrodynamic calculation of heavy fuel systems for marine diesels having comparatively long compression pipelines. One of the features of these fuel systems is the importance of the effect of hydrodynamic resistance on injection. The omission of the calculation of this resistance may lead to inadmissibly large errors. The proposed calculation method is based on the solution of the telegraph equations obtained in calculating Card 1/4

Hydrodynamic Calculation of Fuel Systems (Cont.)

SOV/2501

the hydraulic drag in the initial equations. In addition to the verification of the method and the derivation of the calculating expressions, the book gives explanatory examples and discusses the calculation method for basic types of marine diesel fuel systems. In conclusion, the author gives a method of improving the hydrodynamic calculation of fuel systems of high-speed diesels on the basis of the wave-equation without taking hydraulic resistance into account. No personalities are mentioned. There are 21 Soviet references.

TABLE OF CONTENTS:

Introduction

3

1. Composition of Equations for Calculating the Flow of Fuel in Compressor Conduits in Calculating Hydraulic Resistance Forces

8

2. Determination of Speed of Flow of Fuel at Points of Diagram Included Between Straight Lines $\chi = 1$, t and $\chi = 1$, and Axis of Absciss as Card 2/4

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FOMIN, Yu., dots.; SUKHOMLIN, V., insh.; REMESKOV, A., insh.

Purification of the circulating oil system on "Kazbek"type tankers. Mor.flot 19 no.12:35-36 D '59.

(MIRA 13:3)

1. Odesskiy institut inshenerow morskogo flota (for Fomin).

(Marine diesel engines--Lubrication)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510009-8"

C. On Section Section 2 and Section 2	Grapheanalytical mass generators. Su	method of calculating the objective control of the	operation of free-pisten 0 '59. (MIRA 13:2)	

SUKHOMLIN, V.R., inzh.; FOMIN, Yu.Ya., dotsent

Taking measures to mechanize and automate the power plant of "Kazbek" type tankers. Biul.tekh.-ekon.inform.Tekh.upr.Min.mor.flota 5 no.4: 13-29 '60. (MIRA 15:1)

1. Odesskiy institut inzhenerov morskogo floration (Tank vessels) (Marine engineering) (Altomatic control)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510009-8"

FOMIN, Yu.Ya., dotsent Rated nomogram for the combustion equation in diesel engines. Izv. vys.ucheb.zav.; mashinostr. no.4:133-136 '61. (MTRA 14:6) 1. Odesskiy institut inzhenerov morskogo flota. (Diesel engines) (Nomography (Mathematics))

L 16618-63

s/145/62/000/012/008/011

AUTHOR:

Fomin, Yu. Ya., Candidate of Techn. Sciences, Docent

TITLE:

The improvement in fuel atomizing in Diesel engines at lcw

revolutions and feeds

PERIODICAL:

Izvestiya vysshikh uchebynkh zavedeniy. Mashinostroyeniya,

no. 12, 1962, 123-129

TEXT: The author indicates measures for increasing the fuel injection pressure at low speeds and feeds. From the design viewpoint this is a simple method. It is accomplished by increasing the residual pressure in the supercharging conduit, or by tightening of the atomizer spring. In the first case correcting compressing valves must be added to the engine. An increase in tightening of the atomizer spring improves the quality of atomization at low revolutions and low feeds. The range of increase in these pressures depends on the maximum pressure of the fuel injection at normal revolutions and permissible stresses in the elements of fuel supply equipment. One Soviet reference. There are 1 formula and 6 figures.

ASSOCIATION: Odesskiy institut inzhenerov morskovo flota (Odessa Institute of

Card 1/1

Marine Engineers)

SUBMITTED: July 3, 1961

TAMATOR, Daniil Borisovich, prof., doktor tekhn. mauk [deceased];

<u>KOMIN, Yu, Ya, a, dots.; KAMKIN, S.V., fdots.; RAPOPORT, L.I., kand. tekhn. mauk; SHCHELGACHEV, R.V., imzh.—

mekhamik; SANDLER, N.V., red.izd-va; KOTLYAKOVA, O.I.,

tekhn. red.

[Diesel engines; their design and calculation] Diseli,

kompomovka i raschet. Isd. 3., perer. i dop. Leningrad,

Izd-vo "Morskoi tæmsport," 1963. 439 p. (MIRA 16:7)

(Diesel engines—Design and construction)</u>

TANATAR, Daniil Borisovich, prof., doktor tekhn. nauk [deceased];
Prinimali uchastiye: FCMIN, Yu.Ya., dots.; KAMKIN, S.V.,
dots.; RAPOPORT, L.I., kand. tekhn. nauk, red.; SANDLER,
N.V., red.izd-va; KOTLYAKOVA,O.I., tekhn. red.

[Diesel engines; their arrangement and design] Dizeli; komponovka i raschet. Izd.3., perer. i dop. Leningrad, Izd-vo "Morskoi transport," 1963. 439 p. (MIRA 16:11) (Diesel engines--Design and construction)

ACCESSION NR: APLOLO3LO

\$/0152/64/000/005/0065/0068

AUTHOR: Fomin, Yu. Ya.

TITLE: Compressibility of motor fuels DT-1, DT-2, and DT-3

SOURCE: IVUZ. Neft' i gaz, no. 5, 1964, 65-68

TOPIC TAGS: motor fuel, fuel compressibility, injection unit, modulus of elasticity, fuel viscosity/ DT 1 fuel, DT 2 fuel, DT 3 fuel

ABSTRACT: The author studied the properties of motor fuels DT-1, DT-2, and DT-3 with densities of 0.93h, 0.9h6 and 0.950 g/cm³ respectively at 200. Their viscosity values were 36 x 10^{-6} , 55 x 10^{-6} and 66.6 x 10^{-6} m²/sec at 500. Tests were performed in an experimental injection unit after proheating up to 1.500 and above. There were special provisions in the experimental setup for measuring the speed of propagation of the wave to an accuracy of $\pm 2\pi$. The experiments showed that for all fuels the speed of propagation was practically the same in the temperature interval h0-800. At higher temperatures (120-hh00), the speed of prepagation in DT-1 was lower than that in DT-3 by about 5.5%. The compressibility coefficient is given by the formula

Card 1/2

ACCESSION NR: APholio340

$$\alpha = -\frac{1 + pk}{2p} + \sqrt{\left(\frac{1 + pk}{2p}\right)^2 + \frac{1}{a^2p_1p} - \frac{k}{p}}$$

where O_t is the density of the fuel at atmospheric pressure and at the temperature at which the experiment was conducted, E is the Young's modulus of the conduit material, M is the Poisson coefficient, R and r are the external and internal radii of the conduit, and $k = \frac{2}{E} \begin{pmatrix} R^2 + r^2 \\ R^2 - r^2 \end{pmatrix} M$. The mean coefficient of compress-

ibility is given by the formula

$$\alpha_{cp} = (1 - \alpha_{cp}p) \frac{\int \alpha dp}{\sqrt{1 - \alpha_{cp}p}}$$

The plotted curves of these coefficients for DT-1 at various pressures were approximately parabolic in form. Orig. art. has: 5 formulas and 4 figures.

ASSOCIATION: Odesskiy institut inzhenerov morskogo flota (Odessa Institute for Naval Engineers)

SUBMITTED: 23Dec63

ENCL: 00

SUB CODE: FP

NO REF SOV: 002

OTHER: OOO

Card 2/2

L 22580-65 EWT(m)/EPF(c)/T Pr-4 WE ACCESSION NR: AP5002245

5/0122/64/000/012/0019/0023

AUTHOR: Fomin, Yu. Ya. (Candidate of technical sciences)

TIME: General equations of the injection process of viscous fuel in a diesel engine and their solution with an electronic computer

SOURCE: Vestnik mashinostroyeniya, no. 12, 1964, 19-23

TOPIC TAGS: fuel injection, diesel engine, diesel fuel, fuel injector

ABSTRACT: An electronic digital computer method is presented for solving the hydro-dynamic fuel flow equations for injection of viscous fuels in a diesel engine. Although a method for solving this problem was previously presented by the author (Gidravlicheskiy raschet toplivnykh sistem sudovykh dizeley. Izd-vo "Morskoy transport," 1959), the present method is particularly suited for use with digital computers. The general boundary conditions at the entrace to the pressurizing circuit are described by 7 equations (11 in the previous work) and 3 inequalities. Three of these equations are differential equations and are solved by finite difference methods, the others are solved by successive approximations. The fuel velocity

at the entrance is found by $u_{0, l+1} = u_{1, l+1} + \frac{1}{a_2} (p_n^i - p_{n_1}^i)$ (where a = pressure wave

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ACCESSION NR: AP5002245

velocity, $p_n^! = pump$ outlet pressure found from differential equations; the subscript 1 refers to the initial value and no subscript to the final value during a time interval Δ t.) The flow velocity at the outlet of the pressurizing circuit is similarly found by $u_{L,\,l=1} = u_{L-1,\,l+1} - \frac{1}{ap} \left(p_f - p_f \right)$ (where p_f = nozzle pressure). The

case of a flow discontinuity in the piping (cavitation) is also treated by assuming the pressure at the flow separation equal to zero and expressing the fuel velocity to the left and right of the discontinuity by algorithms similar to the above. This method is used to solve the injection process for a fuel viscosity of $0.2 \times 10^{-4} \text{ m}^2/\text{sec}$ and a tubing length of 2.6 m. Figure 1 on the Enclosure shows a comparison of the calculated and experimental nozzle pressure (2) and (1) respectively and a calculated pressure assuming no friction (3). Orig. art. has: 1 figure and 24 formulas.

ASSOCIATION: none

SUBMITTED: 00

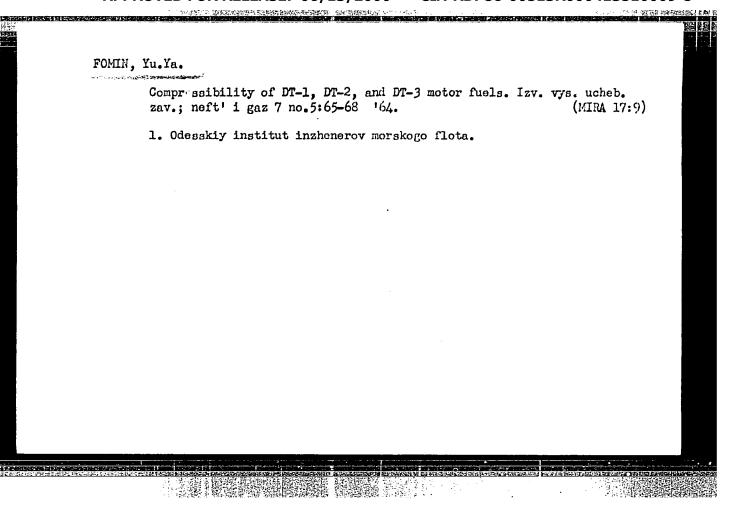
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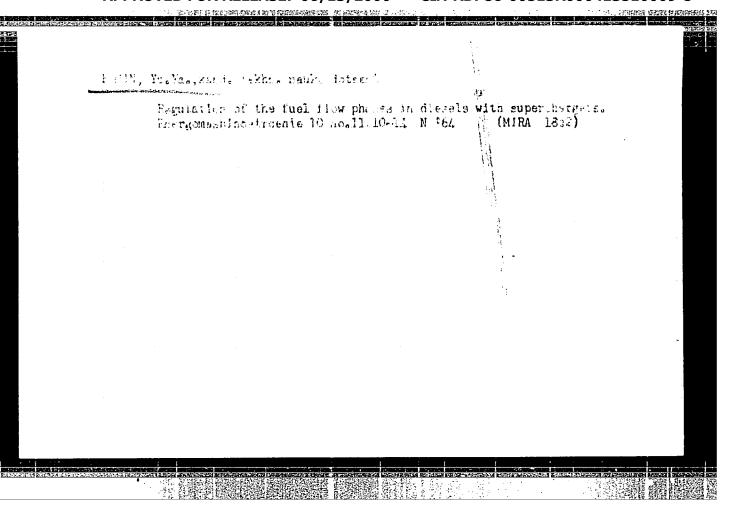


FOMIN, Yu.Ya., kand. tekhn. nauk

Effect of pressure and temperature on the velocity of the propagation of waves, the coefficients of compressibility, and the density of diesel fuel. Trakt. i sel'khozmash. no.9:6-8 S '64.

(MIRA 17:11)

1. Odesskiy institut inzhenerov morskogo flota.



1. 53789-65

ACCESSION NR: AP5009874

UR/0115/65/000/002/0035/0036

536.5:621.038

AUTHOR: Fomin, Yu. Ya.; Gundorin, B. K.

TITLE: Measuring the rapidly-changing temperature of fuel under high-pressure

conditions

SOURCE: Izmeritel'naya tekhnika, no. 2, 1965, 35-36

TOPIC TAGS: diesel engine, diesel fuel

ABSTRACT: The measurement of the temperature of the fuel in a diesel-engine fuel injector is described. The constant temperature component was measured by a copper-constant 0.03-0.06-mm thermocouple having a thermal inertia of 15-20 msec, and the variable component, by a 0.015-mm tungsten resistance thermometer with a thermal inertia of 4-6 msec. An oscillogram shows the entire injection process: lifting the injector needle, fuel pressure, and temperatures. The resistance thermometer reading was behind that of the pressure by only 1-2 msec. Orig. art. has: 3 figures.

Card 1/2

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-	Card 2/2									

FOMIN, Yu.Ya., kand. tekhn. nauk, dotsent

Eliminating additional fuel injections in engines in case of
a high residual pressure in the pressure piping. lzv. vys.
ucheb. zav.; mashinostr. no.2:111-118 '65.

(MIRA 18:5)

_29552=66 ENT(m)/T ____ NN/JN/WE

ACC NR: AP6012270

SOURCE CODE: UR/0114/65/000/011/0024/0926

100 公美

AUTHOR: Fomin, Yu. Ya. (Candidate of technical sciences, Docent)

3

ORG: none

TITLE: Effect of density, pressure and temperature on the compressibility of engine fuels

SOURCE: Energomashinostroyeniye, no. 11, 1965, 24-26

TOPIC TAGS: compressible fluid, liquid fuel, fluid density, fuel test, temperature test, fluid pressure

ABSTRACT: Various types of heavy motor fuel with densities of 0.85-0.99 g/cm³ are experimentally studied as a basis for deriving formulas to find the coefficients of compressibility as a function of pressure and temperature. The specific weights and viscosities of the various fuels studied are given. The formulas derived show that the compressibility of motor fuels is affected primarily by pressure, temperature and fuel density while the fractional composition has little effect. The effect of pressure on the compressibility of motor fuel increases considerably with a rise in temperature. The true and average coefficients of compressibility may be calculated from the formulas

UDC: 621.43.019.004-12

Card 1/2

L_29552-66

ACC NR: AP6012270

$$a = a_0 + a_1 p + a_2 p^2$$
, $a_0 = \frac{a_0 + \frac{a_1}{2} p + \frac{a_2}{3} p^2}{1 + \left(a_0 + \frac{a_1}{2} p + \frac{a_2}{3} p^2\right) p}$

where the coefficients a_0 , a_1 and a_2 depend on fuel density and temperature. A comparison with experimental data shows that these formulas give an error of *4% for the entire range of operational fuel temperatures and pressures up to 700 kg/cm². Formulas are also given for finding the fuel density and rate of pressure wave propagation for various types of fuel at a given pressure and temperature. Orig. art. has: 3 figures, 1 table, 5 formulas.

SUB CODE: 21/

ORIG REF: 006/

OTH REF: 001

Card 2/2 W

POBUL', L. [Fobul, L.], kand.tekhn.nauk; FOMINA, A., kand.tekhn.nauk

Refining and fractionation of mixtures of saturated dicarboxylic acids produced by oxidation of kerogen in kukersite. Eesti tead akad tehn fuus 11 no.3:203-211 '62.

1. Academy of Sciences of the Estonian S.S.R., Institute of Chemistry.

FOMINA, A., doktor khim.nauk; YERUSENKO, V.

Oxidative decomposition of kerogen in dictyonema shale by alkaline potassium permanganate. Izv. AN Est. SSR. Ser. fiz.-mat. i tekh.nauk 12 no.2:189-197 '63. (MIRA 16:10)

1. Academy of Sciences of the Estonian S.S.R., Institute of Chemistry.

FOMINA, A., kand. tekhn. nauk; SHARAPOV, V.

Using portable gas analyzers, GB-3 and PGF-11-54, to measure the concentration of petroleum products vapors. Mor. flot 23 no.9:36-37 S '63. (MIRA 16:11)

NAPPA, L.; FOMINA, A., doktor khim. nauk

Nitrogen of the organic matter in dictyonema shale. Part 3. Izv. AN Est. SSR. Ser. fiz.-mat. i tekh. nauk 12 no.4:446-449 '63. (MIRA 17:1)

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1. Institut khimii AN Estonskoy SSR.

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NAPPA, L.; FOMINA, A., doktor khim. nauk

Determination of the nitrogen in the organic matter of Dictyonema shale. Part 2. Izv. AN Est. SSR. Ser. fiz.-mat. i tekh. nauk 12 no.3:320-326 '63. (MIRA 16:11)

1. Institut khimii AN Estonskoy SSR.

NAPPA, L.; FOMINA, A., doktor khim. nauk

icusare con in an analysis and

Nature of the melanoidins taking part in the formation of kerogen of dictyonema shale. Izv. AN Est. SSR. Ser. fiz.-mat. 1 tekh. nauk 13 no.2:143-147 '64. (MIRA 17:9)

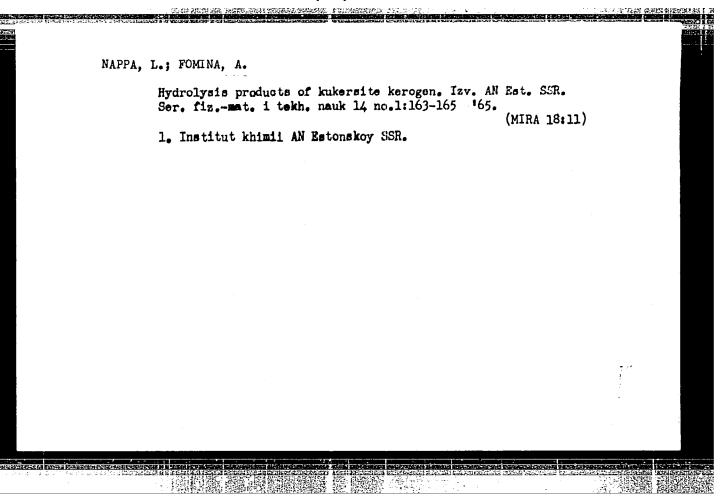
1. Academy of Sciences of the Estonian S.S.R., Institute of Chemistry.

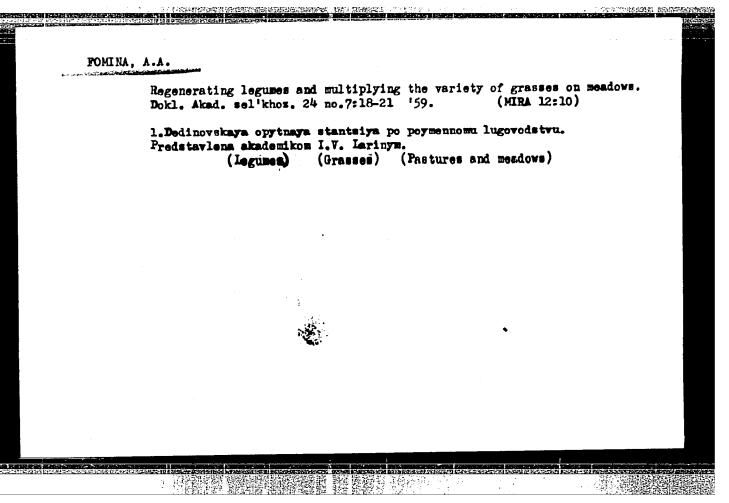
YERUSENKO, V.; FOMINA, A., doktor khim.nauk

Oxidizing decomposition of kerogen in dictyonema shale by alkaline potassium permanganate. Part 2. Izv. AN Est. SSR. Ser. fiz.-mat. i tekh.nauk no.4:319-328 *64. (MIRA 18:4)

1. Academy of Sciences of the Estonian S.S.R., Institute of Chemistry.

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FOMINA, A.A., mladshiy nauchnyy sotrudnik

Using 2,4-D for killing weeds on meadows. Zashch. rast. ot vred. i bol. 5 no.25-26 Ja '60. (MIRA 14:6)

1. Dedinovskaya opytnaya stantsiya po poymennomu lugovodstvu. (2,4-D) (Pastures and meadows)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510009-8"

FOMINA, A. A.

Cand Agr Sci - (diss) "Effect of fertilizers, herbicides, and mowing on the botanical composition of grass stands and the harvest yield of alluvial-plain meadows." Moscow, 1961. 15 pp; (Moscow Order of Lenin Agricultural Academy imeni K. A. Timir-yazev); 200 copies; price not given; (KL, 5-61 sup, 198)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510009-8"

TOPCHIYEVA, K.V.; TAKHTAROVA, G.N.; FOMINA, A.I.

Vapor-phase esterification of aromatic acids with atters on oxide catalysts. Neftekhimia 2 no.5:764-749 S-0 '62'. (MIRA 16:1)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, khimicheskiy fakul'tet.

(Acids, Organic) (Esterification) (Ethers)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510009-8"

Sorghum should be cultivated. Inform. biul. VDNKH no.10: 20-21 '63. (MIRA 18 5)

1. Starshiy ekskursovod pavil'ona "Kukuruza" na Vystavke dostizheniy narodnogo khozyaystva SSSR.

L 1h.957-65 EAT(m)/EFF(c)/T/EMF(j) Pc-li/Pr-li/Po-li SSU/AFEC(b)/AEEC(a)/
AS(mp)-2/ASD(p)-3 RY/MIX
ACCESSION NR. AT4048191 8/0000/64/000/000 0089/0103

AUTHOR: Alekseyova, A. V., Borman, S.S., Gol'bert, K. A., Datskevich, A. A.,
Moshinskaya, M. B., Fomina, A. I.

TITLE: Determination of trace impurities in monomers

SOURCE: Vesecyuznaya nauchno-tekhnicheskaya konforentsiya po gazovoy khromatografii. 2d, Moscow, 1962. Gazovaya khromatografiya (Gas chromatography); trudy*
konforentsiii. Moscow, 12d-vo Nauka, 1964, 99-108

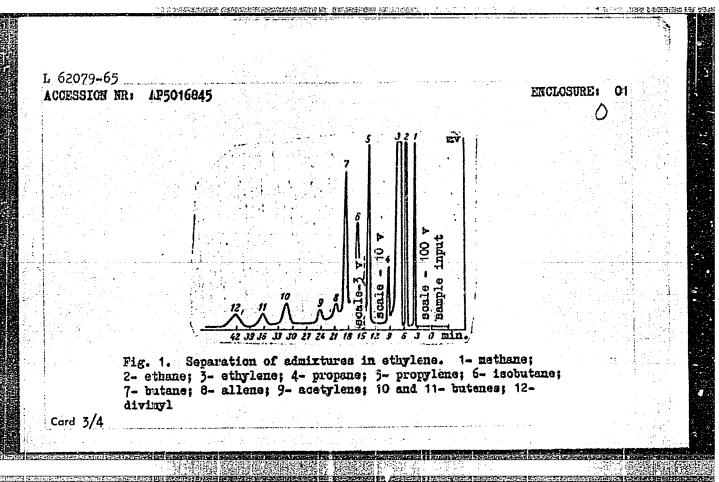
TOPIC TAGS: monomer analysis, impurity determination, gas chromatography, flame
ionization detector, molecular sieve, thermal conductivity detector

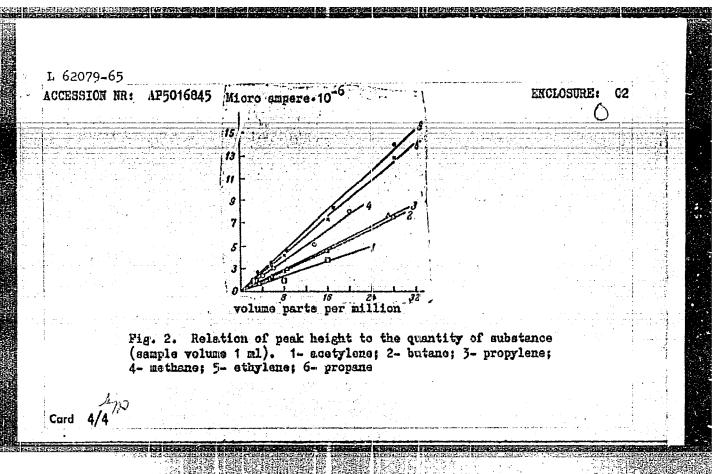
ABSTRACT: The paper concerns the determination of trace impurities in ethylene and
propylene to be used as raw materials for polymers and copolymers/ Light impurities
(fig. Ng. Og. COg., CH4) were determined with the thermal conductivity detector G-9,
heavy impurities with the flame ionization detector. The sensitivity detector G-9,
heavy impurities with the flame ionization detector. The sensitivity was increased
considerably by the use of programmed temporatures. The determination of light impurities is based on the enrichment office obtained if the impurities are adsorbed to a
losser degree than the main component; the width of the band of heavy components was
determined by the coefficient of their adsorbability from the mixture, that of the light
Cord 1/3

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	ACCESSION NR: AT4048 impurities by the spread pylene). Formulas for f	of the adsorptive zo					, e
	columns were used, the N2 and O2 required the u adsorbent. With small I amount of the specimen i	first for enrichment so of a molecular si eads the degree of e	, the second for sep eve in the column, nrichment increase	paration. Separation of with silica gol as the dinearly with the	of	1 · · · · · · · · · · · · · · · · · · ·	
	tests were conducted wit molecular stoves at 80C, satisfactorily separated sulfide, using the flame-	h the concentrator a with satisfactory re on, for example, all ionization detector r	t temperatures of - esults. Heavy impu iminum exide seake nade by OKBA. Inz	17 and 20C and with the critics (C ₁ -C ₄) were and with dicyanodicthyles brick and tripolite			
	with other modifiers wer for the khTM-1 chromat schematically. It was co fold increase in the heigh pure carrier gas. Vario	ograph (1961). The encluded that program its of the peaks, but	apparatus is descri mmed temperatures that they should be	bed and illustrated s will lead to a severa used only with a very	1-	i .	
	2 formulas. ASSOCIATION: None			- ·		•	
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L 62079-65 EPF(c)/EWP(j)/EWA(c)/EWT(m) UR/0204/65/005/003/0449/0452 ACCESSION NR: AP5016845 547.313.2:543.544.451.064 AUTHORS: Alekseyeva, A. V.; \Gol'bert, K. A. (deceased); Fomina, A. I. TITLE: Determination of microadmixtures of hydrocarbons C1-CA in pure ethylene SOURCE: Neftekhimiya, v. 5, no. 3, 1965, 449-452 TOPIC TAGS: hydrocarbon, impurity content, ethylene/ ENU 3 amplifier, EPP 09 registration device, KhT 2M chromatograph, A 1 aluminum oxide ABSTRACT: A procedure is offered for determining hydrocarbon (C1-C4) admixtures in ethylene by using a KhT-2M chromatograph with flame-ionization detection, an EMU-3 amplifier of ionic current, and an EPP-09 registering device. The admixtures were removed in two series-connected towers, one filled with A-1 aluminum oxide, another -- with disodecylphthalate saturated brick (the first column worked under specific temperature conditions, the second-at the temperature of the surrounding medium). Results obtained with the artificial ethylene-impurities mixture are shown graphically in Fig. 1 and the relation of the heights of the peaks on this curve to the quantity of substance in Fig. 2 on the Enclosure. Minimum detectable concentrations of the admixtures separating before ethylene were 0.5 part per million of Card 1/4

	TARROUND PRINTERS BARBASTA CARACTER	
L 62079-65 ACCESSION NR: AP5016845		and divinal separat-
ethylene parts, and those of C ₃ hy ing after ethylene were 0.5-1 par locations and the replacement of diisoamylphthalate did not alter has: 1 table and 4 figures.	t per million. Subsequent exc	hange of tower and tower by
ASSOCIATION: Nauchno-issledovate organicheskikh produktov (Geienti Organic Products)	fic Research Institute of Synt	sirtov i thetic Alcohols and
SUBMITTED: 01Jun64 NO REF SOV: 001	encl: 02 Other: 006	
Card 2/4		

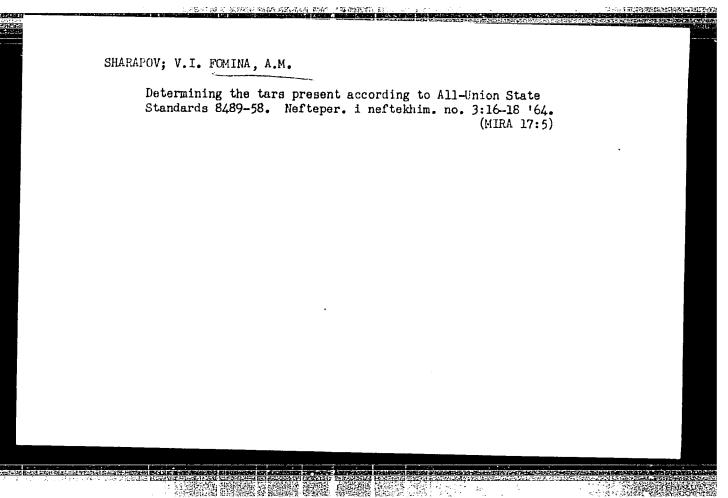


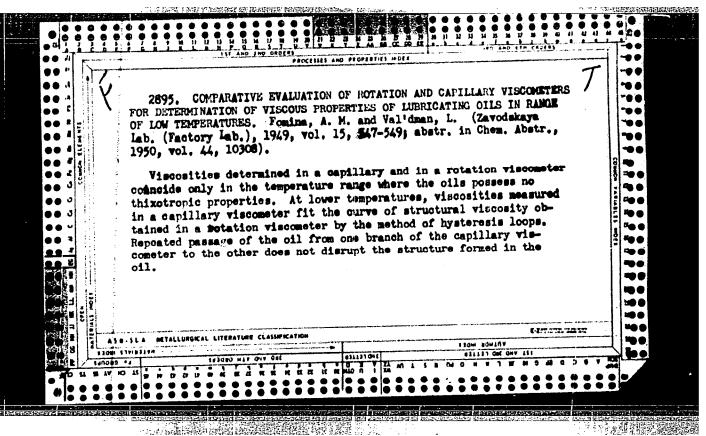


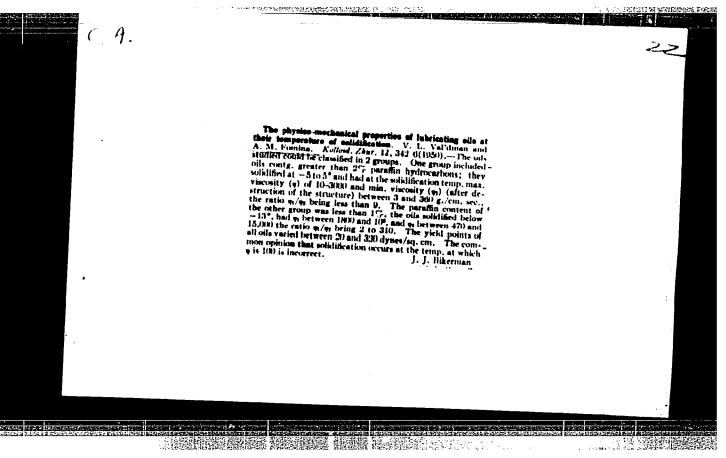
SABLINA, Z.A.; FOMINA, A.M.; CHURSHUKOV, Ye.S.; SAKODYNSKAYA, T.P.

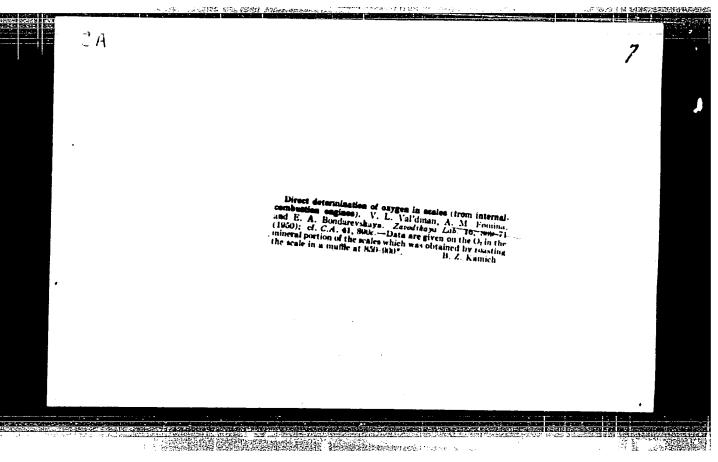
Evaluation of the performance of sulfur-containing diesel fuels and their components by means of rapid laboratory methods. Khim. i tekh. topl. i masel 8 no.5:57-61 My 163. (MIRA 16:8)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510009-8"









FOMINA, A.M.

USSR/Chemical Technology - Chemical Products and Their

I-13

Application. Treatment of Natural Gases and Petroleum.

Motor fuels. Lubricants.

Abs Jour

: Referat Zhur - Khimiya, No 4, 1957, 12991

Author

: Klimov K.I., Fomina A.M.

Title

: Behavior of Oils, Thickened with Polyisobutylene, in

Transmission Assemblies

Orig Pub

: Novosti neft. tekhn. Neftepererabotka, 1955, No 6, 17-18

Abstract

: Experimental use was made, in ZIS-151 and GAZ-63 cars, of transmission oil prepared by thickening of a mixture consisting of 53% summer nigrol and 47% arctic diesel fuel, with polyisobutylene (I) of molecular weight (MW) 24000, used in an amount of 3%. The automobiles traveled over 12000Km at air temperatures from +2 to -32°, with a change of oil after 6000 Km. It is shown that I of the given MW undergoes decomposition, and after a 6000 Km run, the viscosity of the oil, at 1000,

Card 1/2

- 264 -

MELINOV, K.; VINCOGRADOV, V.; SENICHKIW, M.; FOMINA, A.; VILENKIN, A.

New oils for automobile transmission units. Avt.transp. 33 no.11:
17-19 N '55.

(Automobiles--Lubrication)

(Automobiles--Lubrication)

SCV/92-58-7-22/37

AUTHORS:

Leont'yev, B.I. and Forming, A.M.

TITLE:

The Speedy Dehydration of Dark Petrolaum Products (Uskorezmoya

obezvezhivaniye temmykh nefteproduktov)

PERIODICAL:

Neftyanik, 1958, Nr 7, p 25 (USSR)

ABSTRACT:

The authors state that the analysis of a petroleum product sample containing a considerable amount of water is complicated, and is perticularly difficult when heavy viscous oils or manual have to be analysed. The dehydration of such samples by presently existing methods takes a long time. Therefore the authors have proposed a new method of dehydrating the samples of dark petroleum products, which is based on the absorption of moisture by filter paper, capillary assension of moisture and evaporation. They describe the proposed method and state that the vessel with the product and filter paper has to be heated to 60° - 120°C until moisture bubbles disappear from the surface of the petroleum product. In order to speed up evaporation a stream of air may be directed on to the upper part of the filter paper which is projected over the edge of the vessel. The new method ensures the dehydration of 150 grams of matout containing 2 - 3 percent of water in 30 - 40 minutes.

Card 1/1

1. Petroleum--Dehydration 2. Oils--Analysis 3. Petroleum--Testing

equipment 4. Petroleum--Test results

KHAZANOV, V.S., kand.tekhn.nauk; FONINA, A.M., inzh.

Electric and light measurements of fluorescent lamps. Svetotekhnika
6 no.2:8-15 F '60. (MIRA 13:5)

1. Vsesoyuznyy svetotekhnicheskiy institut.

(Fluorescent lamps)

Concerning the quality of IU-16 luxmeters. Svetotekhnika 7 no.11:18-19 N *61. (MIRA 14:11)

1. Vsesoyuznyy svetotekhnicheskiy institut. (Light—Measurement)

Z/011/62/019/004/007/008 .E073/E335

AUTHORS: Sarapov, V.I. and Fomina, A.M.

TITLE: On determining the pressure of saturated vapours of

motor fuels according to the GOST 6668-53 standard

PERIODICAL: Chemie a chemicka technologie; Prehled technicke

' a hospodarske literatury, v.19, no. 4, 1962, 174, abstract Ch 62-2377 (Khimiya i tekhnologiya topliv

i masel, no. 1, 1962, 64 - 65)

TEXT: A calculation according to the given formulae has to be made more accurate by using a correction factor, which takes into consideration the volume of the water vapours. The thus-obtained values are compared with data from published literature and with values determined from the original equation. 2 tables, 4 references.

Abstracter's note: this is a complete translation.

Card 1/1

KHAZANOV, V. S.; FOMINA, A. M.

Control of light and electric parameters of luminescent lamps. Standartisatsiia 26 no.10:27-29 0 162. (MIRA 15:10)

(Fluorescent lamps-Testing)

L 22629-65 EWT(m)/EPF(c)/EWA(d)/T/EWP(t)/EWP(b) Pr-4 IJP(c) JD/WB/DJ ACCESSION NR: AP5001628 S/0318/64/000/012/0028/0029

AUTHOR: Sharapov, V. I., Pomina, A. M.

TITLE: Preparation of lead sheets used for determining the corrosion activity of oils according to GOST 5126-49 and GOST 8245-56

SOURCE: Neftepererabotka i neftekhimiya, no. 12, 1964, 28-29

TOPIC TAGS: oil corrosiveness, corrosion testing, lead corrosion, lubricating oil, lead polishing, chemical polishing

ABSTRACT: A rapid and reliable method is presented for cleaning and polishing the lead sheets used in standard Soviet corrosion tests for lubricants (Gost 5126-49) and Gost 8245-56). The sheets are immersed for 10-15 min. in chemically pure 2 N hydrochloric acid, washed with water, and dried with filter paper. Results obtained by both methods and with both highly corrosive oils and high-quality lubricants were readily reproducible, whereas larger deviations were obtained with lead sheets which were polished by the standard mechanical method. The proposed technique and machanically polished sheets gave similar corrosion values. The sheets can be used 5 times if prepared by the new technique, and they can be produced

Card 1/2

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L 22629-65 ACCESSION NR: AP5001628							
from large sheets or by cast				.0			
ASSOCIATION:	None	Aug or rolling	3. Orig. art	has: 3 teb	les.		
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Card 2/2					1.1		

L 22233-66 EWP(j)/EWT(m)/T/EWP(\forall) IJP(c) RM/WW/WE

ACCESSION NR: AP6006494 (N) SOURCE CODE: UR/0138/65/000/010/0052/0054

AUTHOR: Englin, B. A.; Solomatin, A. V.; Fomina, A. M.; Tugolukov, V. M. 79

ORG: Scientific-Research Institute of the Rubber Industry (Nauchno-issledovatel skiy institut rezinovoy promyshlennosti)

TITLE: Investigation of the mutual effect of rubber coatings and fuels on their properties during storage

SOURCE: Kauchuk i rezina, no. 10, 1965, 52-54

TOPIC TAGS: A jet fuel, fuel storage, storage tank, insulated storage tank, fuel contamination, fuel corrosiveness, rubber, surface active coating, corrosion protection/SKN 26 rubber, SKN 40 rubber, T 1 jet fuel, T 2 jet fuel, 88 N glue, 3 300 glue, DS diesel fuel

ABSTRACT: The authors studied the effect of fuels on the degree of swelling of SKN-26 and SKN-40 rubbers and the effect of these rubbers, as well as brand 88-N and 3-300 glues and a sealing agent based on a brand U-30s Thiokol paste, vulcanized at room temperature and at 145C, on the properties of fuels. The degree of swelling of the rubbers was investigated in T-1 and T-2 jet fuels, in DS diesel fuel, and in solar oil at a temperature of 18-25C for a period of 6 months. In Card 1/2

UDC: 678.026.3:662.75:539.196

L 22233-66

ACCESSION NR: AP6006494

0

order to select control media, mixtures containing 80% cetane and 20% green oil or 90% cetane and 10% green oil were used for the study of the degree of swelling of rubber. It was found that the degree of swelling of SKN-26 rubber in T-1 and T-2 and in DS amounts to 10-15%, and that of SKN-40 rubber to 8-12%. In the contacting of the rubber coatings of fuel storage tanks with jet fuels, the greatest effect on the acidity of the fuels is produced by SKN-40 rubber and brand 88-N glue. SKN-26 rubber has an insignificant effect on the acidity of the fuels. U-30s sealing agent has almost no effect on the acidity of the fuels. Brand 88-N glue has the greatest effect on the content of gums in the fuel, i.e., the acidity of the fuels and the gum content in the fuels increase. The other physicochemical properties of the fuels remain unaltered. In conclusion, the authors recommend SKN-26 rubber with any glue and a sealing agent based on brand U-30s Thiokol paste as an anticorrosion coating for fuel storage tanks. Orig. art. has: 1 figure and 3 tables.

SUB CODE: 07, 11 / SUBM DATE: none

Card 2/2 n

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CIA-RDP86-00513R000413510009-8

L 07946-67 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) JD SOURCE CODE: UR/0311/66/000/006/0024/0026

AUTHOR: Fomina, A. M. (Engineer)

ORG: All-Union Institute of Lighting Engineering (Vsesoyuznyy svetotekhnicheskiy

institut)

TITLE: Use of selenium photocells for measuring variable luminous fluxes

SOURCE: Svetotekhnika, no. 6, 1966, 24-26

TOPIC TAGS: light modulation, selenium, photoelectric cell, light source

ABSTRACT: The author studies the characterittics of various types of selenium photocells used for measuring the luminous flux from light sources flickering at rates from 25 to 8200 cps. The stream of light from incondescent lamps was modulated by rotating slotted discs. The average photocell current was measured on M95 microammeters with internal resistances of 5000, 600 and 11 Ω . The results show that SF-10 photocells may be recommended for measuring modulated luminous fluxes since their deviation from Talbot is no more than 3-h% even at high levels of illumination. The F-102 photocell showed fatigue and instability at levels of illumination exceeding 700 lx. A photocell made by the British company "Megatron" with a sensitive area of 115 cm² gave a poorer performance. The readings from this element are dependent both on level of illumination and on the frequency of light modulation (in the 25-160 cps range) at a

restant level of illumination. Species, selected selecting cells with a vector of 3-10 cm ² conform to Tabbell with an resumment of no less the vels of 30-100 lx and flickering transplant to the property. In using selected for technical measurements of flickering light sources, the worm at levels of illumination where the luminous characteristics are near conlinearity of less than 15%). The results in the selected selecting light sources, the worm of less than 15%.	man 2% for
e at levels of illumination where the lumination wh	alanium
	ly linear
imum instantaneous value of the pulsating luminous flux. Selenium phot	ocells with
ensitive area of more than 100 cm ² are not practical for light measurem . has: 1 table, 1 formula	ents. Orig.
CODE: 20/ SUBM DATE: None/ ORIG REF: 002	
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L 24183-65 EWT (m)/EPF(c)/T Pr-4 WE

ACCESSION NR: APSO04257

3/0065/65/000/001/0052/0054

AUTHOR: Englin, B. A.; Churshukov, Ye. S.; Fomina, A. H.; Haslennikova, Z. V.

CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF

TITLE: Hethod for the qualitative detection of hydrogen sulfide in jet fuels V

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 1, 1965, 52-54

TOPIC TAGS: jet fuel, hydrogen sulfide, analysis, potentiometry

ABSTRACT: A new potentiometric method has been proposed for the qualitative detection of hydrogen sulfide in jet fuel. The method consists of determining the potential of a silver sulfide electrode (GOST 9558-60 standard) before and after removal of hydrogen sulfide by a 3-minute treatment of the fuel with 2% NaOH in a 1/1 ratio, followed by washing the fuel to neutral wash waters. A change in the electrode potential resulting from the NaOH treatment, not exceeding 100 mv, indicates that there is no hydrogen sulfide in the fuel. Since there is no elemental sulfur in commercial TS-1 jet fuel, it cannot interfere. When applied to TS-1 fuel, the new method proved much more reliable and objective than the existing GOST 10227-62 test Card 1/2

L 24183-65

ACCESSION NR: AP5004257

employing filter paper impregnated with lead acctate. Therefore, the new method is suitable for replacing the test called for in item 7 of the GOST 10227-62 standard for quality control of jet fuel at the plant or in the field. Orig. art. has: 5 tables. [5M]

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: FP

HO REF SOV: 000 OTHER: 000 ATD PRHSS: 3175

DREVAL', V.Ye.; TAGER, A.A.; FOMINA, A.S.

Concentrated solutions of polymers. Part 4: Viscosity of polystyrene solutions in various solvents. Vysokom.soed. 5 no.9:1404-1410 S '63. (MIRA 17:1)

1. Ural'skiy gosudarstvennyy universitet imeni Gor'kogo.

FOMINA, A.S., dots.

Reactivity of patients with extrapulmonary localization of a tubercular process. Trudy LMI 2:130-139 155 (MIRA 11:8)

1. Kafedra gospital'noy terapii (zav. - deystvitel'nyy chlen AMN SSSR prof. M.V. Chernourtskiy) Pervogo Leningradskogo neditsinskogo insituta imeni akademika I.P. Pavlova. (TUBERCULOSIS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510009-8"

USSR/General Problems of Pathology - Pathophysiology of Infectious Process.

U.

Abs Jour

: Ref Zhur - Biol., No 19, 1958, 89495

Author

: Foldina, A.S.

Inst

Title

: On the Problem of the Composition of the Blood Serum Proteins in Tuberculous Patients Undergoing Therapy, as

an Index of Their Body Reactivity.

Orig Pub

: Terapevtich. arkhiv, 1957, 29, No 6, 29-36.

Abstract

The blood serum proteins were studied in 2 groups of tuberculous patients (TP):1) acutely ill patients with high To and tendency to hyperergic reactions, but with an apparently good response to therapy, 2) patients with a more severe and prolonged course of illness, responding poorly to therapy. In the TP of the second group there was a more marked decrease of the total proteins and of the alburnin fraction than in the first group; the greatest

Card 1/2

- 5 -

USSR/General Problems of Pathology - Pathophysiology of Infectious Process.

U.

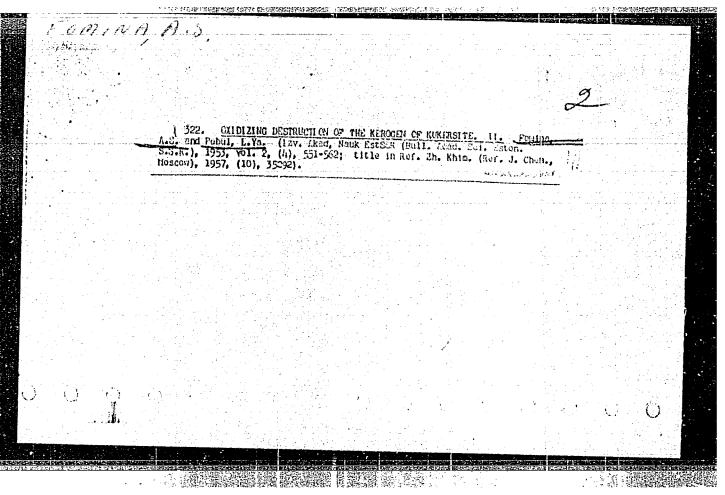
Abs Jour

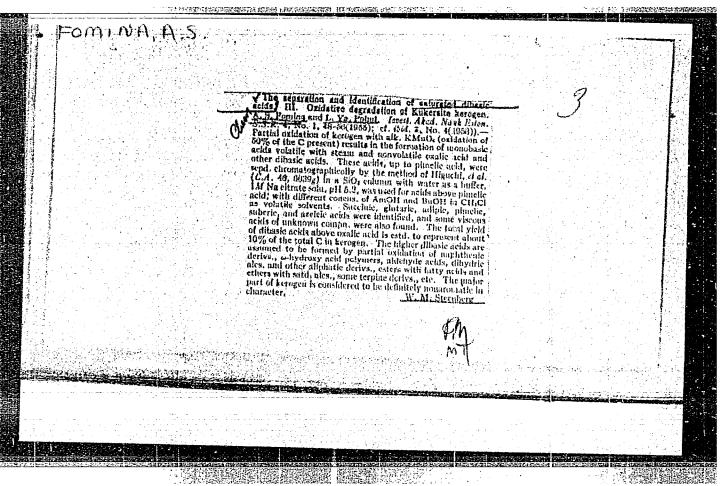
: Ref Zhur - Biol., No 19, 1958, 39495

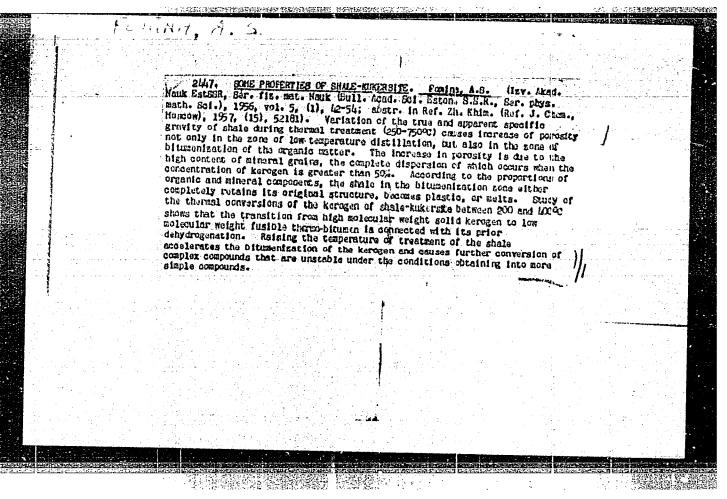
decrease was observed in TP with lympho-hematogenic (LHF) and coverabus forms, particularly when complicated by anyloidosis. During the active course of the process, particularly in the acute phase of the illness, with development of serositis and in TP with LHF, an increase of albumin concentrations. When the tuberculous process quiets down the ratio between the albumins and clobulins returns to normal. The study of the protein fractions of serum is a valuable method of determination of the dynamics of the reactivity and trophic processes in the organism of TP. -- L.M. Model'.

Card 2/2

FOMINA, A. S., Doc M. Sci (diss) -- "Some problems of the reactivity of the organism in tuberculosis in clinical-physiological terms". Leningrad, 1959. 31 pp (Min Health RSFSR, First Leningrad Med Inst im Acad I. P. Pavlov, Chair of Hospital Therapy), 200 copies (KL, No 23, 1959, 171)







FOMILIA, A.

Action of nitric acid on kekersite-shale kerogen.

p. 7 (Trudy) No. 2, 1956. Tallin, Estonia

SO: Monthly Index of East European Accessions (EEAI) LC, - Vol. 7, No. 1, Jan. 1958

AUTHOR:

Fomina, A.S., Cardidate of Technical Sciences 23-58-1-3/10

TITLES

Kukersite, its Chemical Nature and Origin (Kukersit, yego khimicheskaya priroda i proiskhozhdeniye)

计可以语言注意 表现的对方

PERIODICAL:

Izvestiya Akademii nauk Estonskoy SSR, Seriya tekhnicheskikh i fiziko-matematicheskikh nauk, 1958, Nr 1, pp 19-33 (USSR)

ABSTRACT:

The first information on the existence of combustible shales in the coastal region of the Baltic Sea originates from 1791. Kukersite is one of them. It is a deposit of the Lower Silurian period. Studies as to its origin have been conducted since the time it was discovered. The author analyzes the research work carried out during 1951-1957, and finds that modern science confirms the observations and hypotheses of earlier years, i.e. that kukersite is of marine origin and primarily consists of organic material which has turned into a colloid substance mingled with sand and clay. The following scientists are mentioned as important contemporary contributors to researches on the chemical properties of kukersite: S.S. Baukov proved by experiments that the organic material of kukersite had been accumulating as a result of a sedimentary process under the influence of oxidation and reduction. N.L. Dilaktorskiy conducted microscopic

Card 1/2

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1. 不是實際的關鍵

Kukersite, its Chemical Nature and Origin

23-58-1-3/10

investigations on kerogen kukersite samples and proved the form structure of kerogen to be the globular structure of organic colloid substance.

There are 2 tables and 33 references, 22 of which are Soviet, 8 German, 2 English and 1 Swiss.

ASSOCIATION:

Institut khimii Akademii nauk Estonskoy SSR (Institute of Chemistry of the Estonian SSR Academy of Sciences)

SUBMITTED:

October 22, 1957

1. Kukersite-Chamical properties 2. Kukersite-Research and Development

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510009-8"

AUTHOR: Fomina, A.S., Candidate of Technical Uniences 23-58-2-2/9 TITIE: Kukersite, Its Chemical Nature and Origin (Kukersit, yego khimicheskaya priroda i proiskhozhdeniye) (Continued from Izvestiya Akademii nauk Estonskoy SSR, Nr 1) PERIODICAL: Izvestiya Akademii nauk Estonskoy SSR, Seriya tekhnicheskikh 1 fiziko-matematicheskikh nauk, 1958, Nr 2, pp 91-104 (USSR) ABSTRACT: Kukersite is a fuel mineral of marine origin. Deposits of the organic matter of contemporary kukersite have taken place under oxydizing conditions without preserving the regular structure of the organisms that served as initial material for the synthetization of this so-called "aquatic humus". The author quotes the opinions of various scientists with regard to the chemical nature of kukersite. Some of them hold that considering the high content of phenols ascertained in the semicoking tar, phenolic structures must be inherent in kukersite kerogen. The author, however, on checking existing literary and experimental material, concludes that kerogen does not contain any considerable content of ready phenolic structures nor does it contain a benzol ring as is assumed by some scientists who applied inadequate research methods. Card 1/2 There are 50 references, 36 of which are Soviet, 12 German,

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510009-8"

Kukersite, Its Chemical Nature and Origin

23-58-2-2/9

1 English and 1 Swiss.

ASSOCIATION:

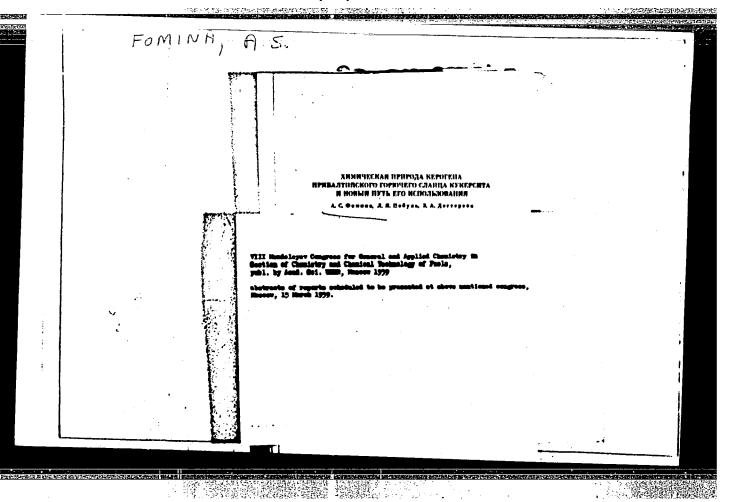
Institut khimii Akademii nauk Estonskoy SSR (Institute of Chemistry of the Academy of Sciences of the Estonian SSR)

SUBMITTED:

Oct 22, 1957

Card 2/2

1. Kukersite - Sources 2. Kukersite - Analysis 3. Fuels - Sources



CIA-RDP86-00513R000413510009-8 "APPROVED FOR RELEASE: 06/13/2000

5(3)

SOV/23-59-2-7/8

AUTHORS:

Degtereva, Z.A., and Fomina, A.S., Candidate of

Technical Sciences -

TITLE:

Production of the Dibasic Acids $\mathbf{C}_4 - \mathbf{C}_{10}$ from the Oil Shale Kukersite

PERIODICAL:

Izvestiya Akademii nauk Estonskoy SSR, Seriya tekhnicheskikh i fiziko-matematicheskikh nauk, 1959, Nr 2, pp 123-136 (USSR)

ABSTRACT:

The authors present data on the oxidation of kukersite kerogen into dibasic saturated acids using nitric acid of various concentrations, at different temperatures, intervals of time, pressures and quantities of oxidizer. Proceeding from the experimental data, the authors have worked out a system for the industrial treatment of kukersite shale kerogen containing 85-87% of organic matter. The yield of dibasic acids, under optimum conditions, is as follows: 1) 50-55% based on the kerogen using 99% nitric acid, at an expenditure of 4.5 tons of oxi-

Card 1/2

dizer per ton of a technically pure mixture of dibasic

SOV/23-59-2-7/8

Production of the Dibasic Acids ${\rm C_4}$ - ${\rm C_{10}}$ from the Oil Shale Kukersite

acids; 2) 40-43% based on kerogen using dilute acid (autoclave procedure) at an expenditure of 3.5 to 4.5 tons of oxidizer - 60% nitric acid. The production of dibasic acids from oil shale kukersite is profitable as shown by an estimate of expenses on raw and auxiliary materials. There are 9 tables, 4 diagrams and 16 references, 13 of which are Soviet, 1 French, and 2 English.

Card 2/2

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11(7) FUASE I DOOK EXPLOITATION SOT/2996 Absdeadys paul SMSs. Institut goryuchith ishopsysspin Genetis twetyth goryuchith ishopsyspyth (errests of Solid Peals) Baccow, Ast Bonnes, 1999. 199. Errata alip inseried. 2,000 topies printed. Sponsoling Agency: Yessoyumory hitsichesinys cebabnette im. B. I. Mendelsysm. Resteratory ottalentys.	or, Correspondi Chemical Science I. F. Rus'mia.	ints collection of Articles is intends her specialists interested in the genes	CONTAINT. The collection of papers on the generals of collection threat has been propored for presentation at the root All-Driam Contresses on this school, for formation of hands caided and past from the decomposition of attracersations and plants is distributed at connection with studies on the origin of hard coal and brown coll and on the role of erratin attracts components in the coal. forming process. The chemical composition of past and the origins mass of thate are enabyzed and shown in a number of tables. Estantas Tablescapes that a transfer of tables, and the origins and controlled are the proposition of tables, and the origins of tables, and the formation of coal found is distributed with the composition of coal found is distribute parts of the law origins of the found is stributed to the found in the composition of coal found is distribute parts of the found.	2, Genesis of Retonian Buthersite 011 Shale	Positio, 4, 8. On the Question of the Origin of Baltis Enhanced to 611	Lararayar, E. M., and I. A. Talente. Lightle and Indial Brages of Goal. Formation	Symbolic L. F. Origin of Brown Coal Found in the Reproprietwesk Basin of the Unrainian men	Cherbouter, Ja. M. Irreplan Carbonisation of Bascock Conl Penal on the Estern Flank of the Contral and Bordarn Brals	latter of Rem	Migrating J. M. Goodifons of Formation of Mightly Carborised Conl. Form Southern Drud Brown Cond Pents. Migrating Lat. Metacophisms of Brown Cond Prom Bogoalorshops and Vessionary Proposite of the Pariety Plant of the Berthern Units. 160	oditions of Trensformstion of Coal Made- n Puri of the Russian Platform	Original For Man New Possible Conditions Under Which Coal Strets Could Arm Deep Pormed at the Rumstak Resis	of Hacte Coal During Metamorphism	Eliternberg, L. La. Changes in Mirroscopic Characteristics of Clarata Comi.	Y. Genesis of Jurasic Coal at Town	Massichting V. I. Rome General Pariteal and Chemical Spartices Con-	Treest Co	erleine by	Reberin, V. J. Chemical Rature of the Basis Organic Mass of Mard and hroon Coal and Chemics During Missaurphies	Entharwind, f., 4. Changes in the Structure and Properties of Reads Note: Acids During the Conl-founting Process	6. Role of Mineral Elements in the Conl-forming Freeses	Organis bulnurous Compounts Coestained in Conjurcements of Sta

S/023/60/000/003/002/012 0111/0222

AUTHORS: Nappa, L., and Fomina, A.S., Candidate of Technical Sciences
TITLE: On the Question on the Nitrogen of the Organic Part of Dictyonema
Shale

PERIODICAL: Izvestiya Akademii nauk Estonskoy SSR,. Seriya Tekhnicheskikh i Fiziko-Matematicheskikh nauk, 1960, No.3, pp.195-204

TEXT: The authors investigated a test piece of 120 kg of Dictyonema shale taken from Maardu. The kerogen of this shale has a content of nitrogen of 2-3%. A hydrolysis with mineral acids was carried out, where according to the method of the one-dimensional paper chromatography described in (Ref.25) in the hydrolysate there were found nine mono amino acids:

1) CH₂(NH₂)COOH, 2) CH₃CH(NH₂)COOH, 3) CH₃CH(CH₃)CH(NH₂)COOH,

- $^{4)$ сн $_{3}$ сн $^{(2)}$ сн $^{(2)}$ соон, $^{5)}$ с $_{2}$ н $_{5}$ сн $^{(2)}$ сн $^{(2)}$ сн $^{(2)}$ соон, $^{(3)}$ носн $^{(2)}$ сн $^{(2)}$ соон, $^{(3)}$ носн $^{(2)}$ соон, $^{(3)}$ носн $^{(3)}$ сн $^{(4)}$ сн $^{(4)}$
- 7) HOOC CH2CH2CH(NH2)COOH and traces of 8) CH2(NH2)CH2CH2COOH,
- 9) $C_6H_5CH_2CH(NH_2)COOH$. With respect to the origin of the kerogen the authors deviate from the opinion of Manskaya (Ref.26); they assume that it can be traced back to proteins and bacteria. The authors mention

Card 1/2

On the Question on the Nitrogen of the Organic Part od Dictyonema Shale

\$\frac{5}{023}/60/000/003/002/012}{C111/C222}\$

Arkhangel'skiy, Luha, Kirret, Siirde, Rägo, Polikarpov, Gerasimov, Tikk, Professor V.L.Kretovich, N.N.Bakh and Zh.V.Uspenskaya. They thank Professor V.L.Kretovich and Zh.V.Uspenskaya. There are 4 figures, 6 tables and 26 references: 16 Soviet, 2 German and 8 American.

ASSOCIATION: Institut khimii Akademii nauk Estonskoy SSR (Chemical Institute of the Academy of Sciences of the Esthonian SSR)

SUBMITTED: October 24, 1959

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510009-8"

CONTRACTOR STATEMENT OF THE STATEMENT OF THE STATEMENT IN

NAPPA, L.3 FOMINA, A.S., kandidat tekhnicheskikh nauk

Concerning the nitrogen in the organic matter of dictyonema shale.
Eesti tead akad tehn fuus 9 no.3:195-204 '60. (EEAI 10:3)

1. Institut khimi Akademii nauk Estonskoy SSR.

(Nitrogen) (Dictyonema) (Shale)

(Amino acids) (Chromatography)

POBUL', L. Ya.; FOMINA, A.S.; DEGTEREVA, Z.A.

Analyzing dicarboxylic acid mixtures by the method of distributive chromatography on silica gel. Khim. i tekh. topl. i masel. 6 no.10: 55-59 0 '61. (MIRA 14:11)

1. Institut khimii AN Estonskoy SSR.
(Acids, Fatty) (Chromatographic analysis)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413510009-8"

LIAKUMOVICH, A.G.; PONOMARENKO, V.I.; FOMINA, A.S.

Effect of the standard specifications of the PN-6 oil on the plasticelastic properties of the GKMS-30ARM-15 rubber. Kauch. i rez. 22 no.5:47-48 My '63. (MIRA 16:7)

1. Sterlitamakskiy savod sinteticheskogo kauchuka.
(Rubber, Synthetic--Testing)
(Mineral oils--Standards)

FOMINA, Aleksandra Sergeyevna; FOBUL . Lind.

DEGTEREVA, Zinalda Aleksandrovna; KIRKEI, O., red.;

SKVORTSOVA, A., red.

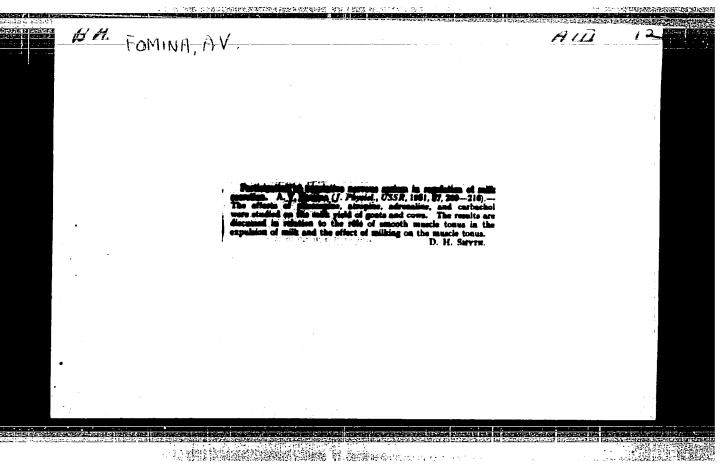
[Nature of the kerogen of Baltic oil shale kukersite and its chemical properties as raw material] Priroda kerogena Pribaltiiskoge goriuchego slantsa-kukersita i ego khimi-cheskie syrlevye kachestva. Tallinn, AN Estonskoi SSR, 1965. 212 p. (MIRA 18:8)

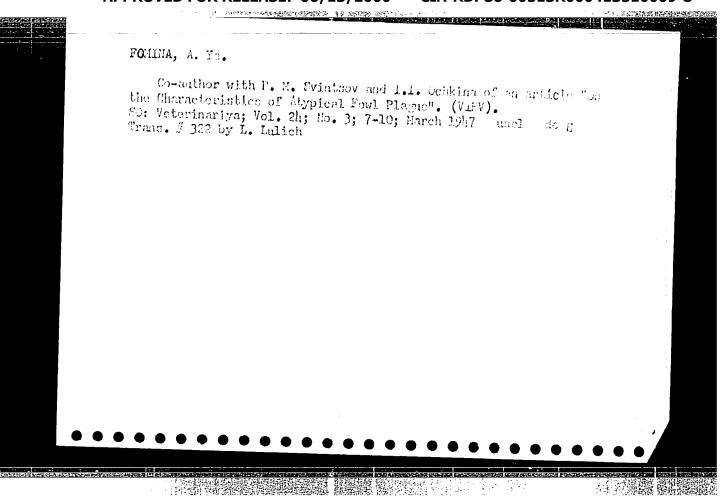
1. Chien-korrespondent AN Estonskoy SSR (for Kirret).

2. Redaktorsko-izdatel'skiy sovet AN SSSR (for Skvortsova).

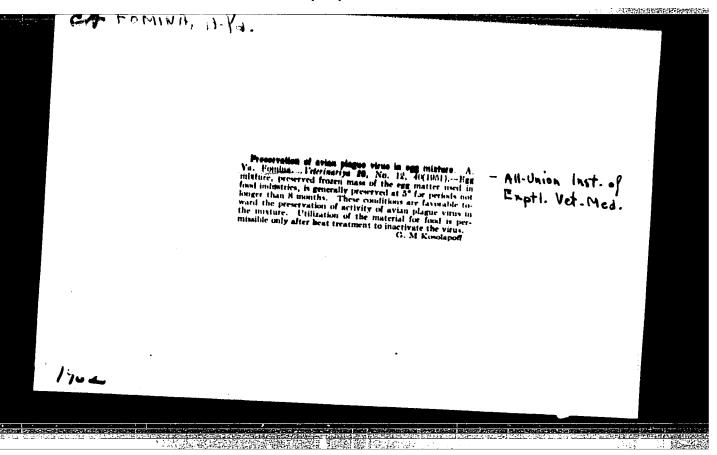
ځويلالاين م SOURCE CODE: UR/0413/66/000/014/0121/0121 INVENTOR: Fomina, A. S.; Rayg, Kh. A.; Degtereva, Z. A.; Veski, R. E. ORG: none TITLE: Plant-growth stimulator. Class 45, No. 184063 SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 121 TOPIC TAGS: plant growth regulator, polycarboxylic aliphatic acid, polycarboxylic aliphatic acid salt, aqueous solution, polycarboxylic acid, plant growth ABSTRACT: It is known that polycarboxylic acids of the aliphatic series, which are the by-product in the preparation of saturated $C_L - C_{10}$ dicarboxylic acids from kerogen of oil shales, are used as plant-growin stimulators. It is proposed to use the polycarboxylic acids in the form of aqueous solutions of their K, NH, and Ca salts in concentrations of 0.0001 to 0.1%, based on the dry salt. [WA-50; CBE No. 11] SUB CODE: 07,06/SUBM DATE: 25Feb65/ Card 1/1 631.811.98

ACC NR: AP6029065 SOURCE CODE: UR/0413/66/000/014/0121/0121 INVENTOR: Fomina, A. S.; Rayg, Kh. A.; Degtereva, Z. A.; Veski, R. E. ORG: none TITLE: Plant-growth stimulator. Class 45, No. 184063 SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 121 TOPIC TAGS: plant growth regulator, polycarboxylic aliphatic acid, polycarboxylic aliphatic acid salt, aqueous solution, polycarboxylic acid, plant growth ABSTRACT: It is known that polycarboxylic acids of the aliphatic series, which are the by-product in the preparation of saturated C_{i_1} — C_{i_1} 0 dicarboxylic acids from kerogen of oil shales, are used as plant-growth stimulators. It is proposed to use the polycarboxylic acids in the form of aqueous solutions of their K, NH, and Ca salts in concentrations of 0.0001 to 0.1%, based on the dry salt. . [WA-50; CBE No. 11] ٥ SUB CODE: 07,06/SUBM DATE: 25Feb65/ 1/1 631.811.98





Neutralizing and Preventive Propertice duced From Sheep Hyperimmunized by the atic Fowl Plague, "A. Ya. Fomins, Cand I. Ochkins, Sci Collaborator a" No 1, p 51 ties of blood serum produced from manunized over period of 8 mo by in-5 ml of virus material subcutaneously itoneally. Two-5 ml of serum admindays before infection of chickens by - Fowl Plague (Contd) - Asiatic fowl plague showed prophylact serum. Lists effects of various quantum in neutralizing multiples of lethan virus.	FOMINA, A., Ya.,	the virus of property of settities of seridoses of the	"Veterinariya Pests propert: sheep hyperim troducing 465 and intraperi: istered 3-5 december 1.5	n mest of to Serum I Virus of I	173T75 USGR/Medicine	
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	173	Jan 51 Contd) Jan 51 gue showed prophylactic ects of various quan- ag multiples of lethal	um produced from fod of 8 mo by in- erial subcutaneously ml of serum admin- tion of chickens by	Preventive Pr Hyperimmunized A. Ya. Fomin	Jan 51	



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- 2. USSR (600)
- 4. Cholera, Asiatic
- 7. Cultivation of virus of Asiatic fowl cholera on chick embryos. Trudy Vses. inst. eksp. vet. 19, no. 1, 1952.

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